

match *Maker*

Metal Ceramic

MC

Perfect shades straight from the bottle



Instruction Manual



THE QUEEN'S AWARDS
FOR ENTERPRISE
2004

match *Maker*
Metal Ceramic
MC



**Perfect shades
straight from the bottle**



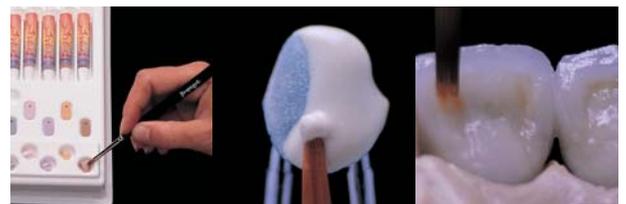
Matchmaker MC is a complete bonded crown system, offering levels of quality and consistency that are greatly superior to those of any previous system. Matchmaker MC allows you to create beautiful, highly individual crowns that sparkle with vitality and natural fluorescence. Thanks to the systems components, a perfect match is guaranteed time after time.

Beautiful smiles and warm laughter have the potential to change patient's lives. Patients increasingly are coming to appreciate this and demand ever higher standards. But not every clinical case has the same degree of complexity and for most situations the ceramist needs a system that enables beautiful work to be carried out quickly and simply - as we put it "Perfect Shades Straight from the Bottle". But for challenging cases a more sophisticated layering system is required. With Matchmaker MC Metal Ceramic you get both in the one system.

Matchmaker MC T-Dentine Simplified (minimal cut-back) Technique

Apply the chosen shade of Propaque Paste Opaque to the metal framework, followed by Matchmaker MC T-Dentines and Matchmaker MC T-Enamels in the incisal third. Where space is limited apply a thin layer of Matchmaker Enhancer under the dentine and fire them together. Enhancer powders are dentines with higher chroma matched to every shade on the guide so that even when there is less than ideal room, an excellent match without opaque shine through can normally be achieved. For any further adjustments Matchmaker Living Stains have a unique range of A, B, C and D shades, matched to the standard shade range.

Matchmaker MC with the simplified T-Dentine technique saves your laboratory time.



Matchmaker MC Multi-Layering Techniques

Matchmaker MC is ideal where cases require a multi-layering technique since the whole colour palette is available to the ceramic artist. Some cases need a layering technique to obtain beautiful results and here Matchmaker MC is ideal with the whole colour palette available. Apply Propaque as with the simpler technique, before application of the wide range of shoulder shades. Following application of Matchmaker Enhancers use one or more powders from the extensive range of Matchmaker Master Modifiers together with the Standard Dentines and layer the enamels over the labial surface - just like natural enamel. With the Matchmaker extensive range of powders you can achieve whatever your imagination dictates. Freedom for the true artist in ceramics.



Matchmaker MC is ideal where cases require a multi-layering technique since the whole colour palette is available to the ceramic artist.

matchMaker
Metal Ceramic
MC

Perfect shades
straight from the bottle



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Matchmaker MC Bonding Ceramic System

Product Selection Chart for the Matchmaker MC T-Dentine Simplified (minimal cut-back) Technique

Shade	HA0	A1	A2	A3	A3.5	A4	HA0/ HB0	HA0/ HB0	B1	B2	B3	B4	C1	C2	C3	C4	D2	D3	D4				
Propaque Paste Opaques	HA0/ HB0	A1	A2	A3	A3.5	A4	HA0/ HB0	HA0/ HB0	B1	B2	B3	B4	C1	C2	C3	C4	D2	D3	D4	Blossom	Lilac	Camel	Coffee
Matchmaker MC Shoulders Essentials Range	S32	S32	S32	S32	S33	S33	S32	S32	S32	S32	S33	S33	S34	S34	S34	S34	S34	S34	S31 Neutral	S5 Neutral Opaque			
Matchmaker MC Enhancers	HA0	A1	A2	A3	A3.5	A4	HB0	HB0	B1	B2	B3	B4	C1	C2	C3	C4	D2	D3	D4				
Matchmaker MC T-Dentines	HA0	TA1	TA2	TA3	TA3.5	TA4	HB0	HB00	TB1	TB2	TB3	TB4	TC1	TC2	TC3	TC4	TD2	TD3	TD4				
Matchmaker MC T-Enamels	TE7	TE8	TE8	TE9	TE9	TE10	TE7	TE7	TE7	TE9	TE9	TE9	TE10	TE9	TE9	TE10	TE10	TE9	TE10	Neutral	Clear	Ultra Clear	

Product Selection Chart for Matchmaker MC Multi-Layering Techniques

Shade	HA0	A1	A2	A3	A3.5	A4	HA0	HA0/ HB0	B1	B2	B3	B4	C1	C2	C3	C4	D2	D3	D4						
Propaque Paste Opaques	HA0/ HB0	A1	A2	A3	A3.5	A4	HA0/ HB0	HA0/ HB0	B1	B2	B3	B4	C1	C2	C3	C4	D2	D3	D4	Blossom	Lilac	Camel	Coffee		
Matchmaker MC Powder Opaques		A1	A2	A3	A3.5	A4			B1	B2	B3	B4	C1	C2	C3	C4	D2	D3	D4	OB20 Grey	OB21 Pink	OB22 Yellow	OB23 Brown	OB24 Violet	
Matchmaker MC Shoulders Full Range		A1	A2	A3	A3.5	A4			B1	B2	B3	B4	C1	C2	C3	C4	D2	D3	D4	S0 Translucent	S1 Ivory	S2 Yellow	S3 Orange	S4 Brown	S5 Opaque
Matchmaker MC Enhancers	HA0	A1	A2	A3	A3.5	A4	HB0	HB0	B1	B2	B3	B4	C1	C2	C3	C4	D2	D3	D4						
Matchmaker MC Standard Dentines	HA0	A1	A2	A3	A3.5	A4	HB0	HB00	B1	B2	B3	B4	C1	C2	C3	C4	D2	D3	D4						
Matchmaker MC Opacious Dentines		OD34	OD34	OD31	OD37	OD36			OD34	OD34	OD32	OD33	OD34	OD37	OD36	OD36	OD35	OD31	OD37						
Matchmaker MC Enamels	TE7	E8	E8	E9	E9	E10	TE7	TE7	E7	E9	E9	E9	E10	E9	E9	E10	E10	E9	E10	Neutral	Clear	Ultra Clear			
Matchmaker MC Opal Enamels		OL8	OL8	OL9	OL9	OL10			OL7	OL9	OL9	OL9	OL10	OL9	OL9	OL10	OL9	OL10	OL9	OL10	Blue	Orange	White	Neutral Translucent	

Matchmaker MC Colour Transluents	CT1 Blue	CT2 White	CT3 Red	CT4 Yellow	CT5 Orange	CT6 Green	CT7 Grey																
Matchmaker MC Fluorescent	FN Fluorescent Neutral (mix with dentines or enamels for increased fluorescence)																						
Matchmaker MC Mamelons	M1 Barley	M2 Oat	M3 Corn	M4 Rye	M5 Maize																		
Matchmaker MC Occlusals	OC1 Ice Cap	OC2 Snow Cap	OC3 Honey	OC4 Amber	OC5 Caramel																		
Matchmaker MC Opacious Dentines	OD31 Light Brown	OD32 Yellow Brown	OD33 Red Brown	OD34 Ivory	OD35 Red Yellow	OD36 Brown Grey	OD37 Yellow Grey																
Matchmaker MC Master Modifiers	MM0 Neutral	MM1 White	MM2 Yellow	MM3 Intense Yellow	MM4 Light Brown	MM5 Dark Brown	MM6 Pink	MM7 Blue	MM8 Green	MM9 Grey	MM11 Violet												
Matchmaker MC Master Gingivals	MG1	MG2	MG3																				
Matchmaker Glaze Powder																							
Matchmaker Pontic Fill																							
Matchmaker Liquids	Opaque Liquid	Shoulder Liquid	Dentine Liquid	Dentine Plus Liquid	Modelling Liquid	Enhancer Liquid	Glaze Liquid																
Matchmaker Living Stains	1 White	2 Yellow	3 Peach	4 Orange Brown	5 Dark Brown	6 Pink	7 Blue	8 Grey	9 Red Brown	10 Black	A	B	C	D									

Preparation of the Metalwork

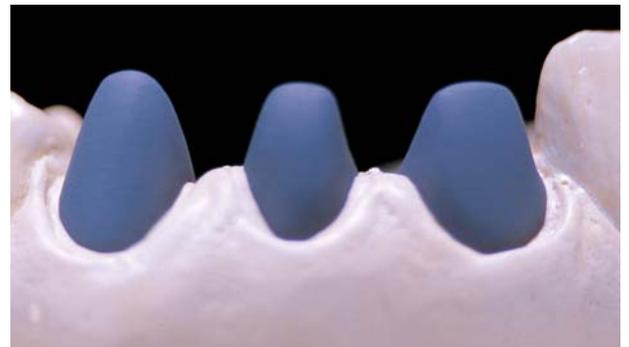
The alloy should be prepared and then oxidised according to the manufacturer's instructions. If no specific instructions are given for preparation, the surface should be ground in one direction.

Avoid overlapping the metal and use Schottlander K+M Brown or RAO Blue mounted points depending upon the type of alloy.

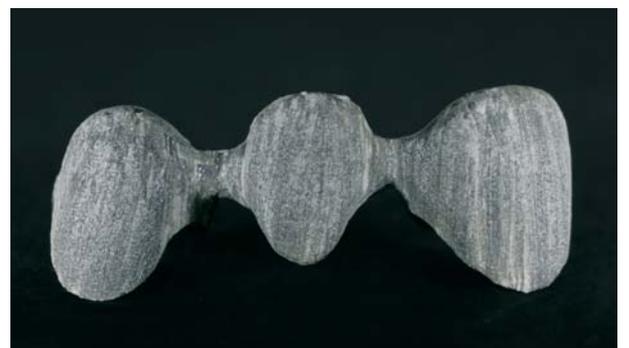
The surface should then be microblasted with 50 micron aluminium oxide (100-120 micron for non-precious alloys), 3-6 bar pressure. Use lower pressure on softer alloys and higher pressure on harder alloys.



Thoroughly clean the metal framework using a steam cleaner or boiling water in an ultrasonic cleaner. Then oxidise according to the manufacturer's instructions. The appearance of the oxide must be the same on all surfaces. After oxidation, the metal framework should only be handled using clean instruments.



Matchmaker CTE Buffer enables a more consistent bond to be achieved between non-precious alloys and Matchmaker MC and LF Ceramics. It blocks escaping metal oxides, provides a flexible intermediate layer. It is applied and fired after metal preparation and before opaque application.



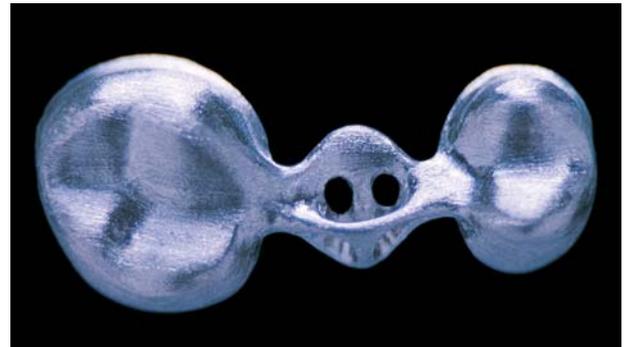
Matchmaker MC Pontic Fill for use with hollow pontics

The hollow pontic should be prepared as per the alloy manufacturer's instructions if it is cast from a wax or plastic pattern.

Mix Matchmaker MC Pontic Fill with distilled water to a thick consistency and apply in the hollow areas of the pontic, level to the external surfaces.

Vibrate with an instrument or ultrasonic condenser and remove excess liquid.

Repeat until the Pontic Fill is level with the structure of the pontic.

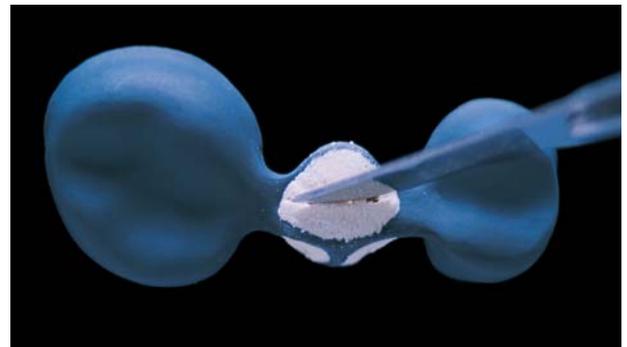


With a thin bladed knife, cut as deeply as possible into the centre of the Matchmaker MC Pontic Fill.

If the material breaks away from the pontic it is too dry since the knife should come away cleanly from the material.

Repeat the procedure in all hollow areas of the pontic.

Fire according to the table below.

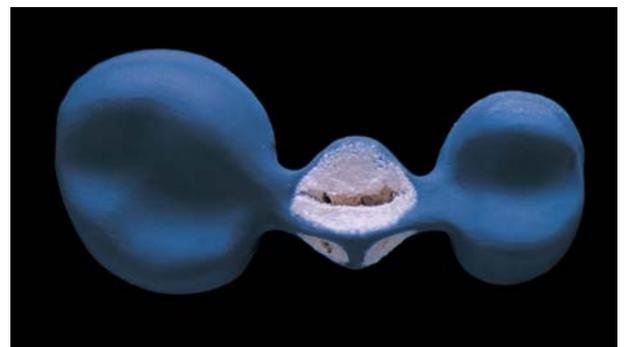


When the framework has cooled, fill in the opening which will have appeared with more Matchmaker MC Pontic Fill mixed to the same consistency as previously.

Vibrate and remove excess moisture.

Re-fire as previously.

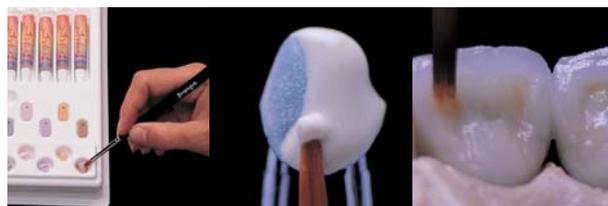
After cooling apply the opaque in the usual manner.



Matchmaker MC Pontic Fill	Start Temp °C	Minimum Drying Time	Temp Rise °C / Min	Vacuum	High Temp °C	Hold Time Without Vacuum
1st and 2nd Firing	550	6 minutes	80	Yes	980	1 minute

Matchmaker MC T-Dentine Simplified (minimal cut-back) Technique

Apply the chosen shade of Propaque Paste Opaque to the metal framework, followed by Matchmaker MC T-Dentines and Matchmaker MC T-Enamels in the incisal third. Where space is limited apply a thin layer of Matchmaker Enhancer under the dentine and fire them together. Enhancer powders are dentines with higher chroma matched to every shade on the guide so that even when there is less than ideal room, an excellent match without opaque shine through can normally be achieved. For any further adjustments Matchmaker Living Stains have a unique range of A, B, C and D shades, matched to the standard shade range.



Propaque Paste Opaque, 1st Firing

Two coats of Propaque Paste Opaque of equal thickness are recommended. The first to establish a bond to the alloy surface and the second to completely mask the alloy and oxide.

Moisten the brush in clean water and remove any excess from the bristles. Dispense the chosen shade of Propaque into the appropriate well. Apply with even strokes in one direction.

Avoid over brushing and apply as thinly as possible to just mask the alloy.

Fire according to table below.



After firing, the surface should have a slight sheen.

Notes: The brush should only be damp. If it is wet, then control and coverage of Propaque are lost.

Firing cycle below is for precious and semi-precious alloys. For non-precious alloys increase High Temperature by 30°C*.

If thinning Propaque use a very small amount of Matchmaker Glaze & Stain Liquid.



Propaque Paste Opaque	Start Temp °C	Minimum Drying Time	Temp Rise °C / Min	Vacuum	High Temp °C	Hold Time Without Vacuum
Propaque 1st Firing	550	8 minutes	80	Yes	980 *	1 minute

Propaque Paste Opaque, 2nd Firing

After allowing the coping to cool apply a second, thin coat of Propaque Paste Opaque.



Either use the shade concerned on its own or mix with Propaque modifiers or any other Propaque shade.

Fire according to the table below.



After firing the surface should appear textured with a slight sheen.

Hints: Brush should be only damp. If it is wet, then control and coverage of Propaque are lost.

If thinning Propaque use a minute amount of Matchmaker Glaze & Stain Liquid.



Propaque Paste Opaque	Start Temp °C	Minimum Drying Time	Temp Rise °C / Min	Vacuum	High Temp °C	Hold Time Without Vacuum
Propaque 2nd Firing	550	8 minutes	80	Yes	960	1 minute

Matchmaker MC Enhancer, T-Dentine and T-Enamel, 1st Firing

Strengthening dentine colour where space is limited

Where space is limited and the opaque is expected to have too great an influence in the middle third of the tooth, apply Matchmaker MC Enhancer as shown before dentine build up. Matchmaker MC Enhancer creates an illusion of greater porcelain depth and compensates for insufficient dentine thickness.

Hint: Only use this technique when ceramic thickness is limited, otherwise use Matchmaker MC T-Dentine on its own.



Moisten the fired opaque with Dentine Liquid. Where space is limited (see above) apply Matchmaker MC Enhancer before the T-Dentine material. Otherwise just build up the labial anatomical form of the crown with the T-Dentine.

Once the anatomical form has been contoured, over build slightly in length to allow for the minimal shrinkage during firing. Reduce the dentine incisally, buccally, mesially and distally to allow for the enamel.



Remove the restoration from the model and build up the contact points with the appropriate T-Dentine or T-Enamel porcelains. Interdental spaces on bridgework should be separated to the opaque with a sharp blade.

Apply the Matchmaker MC T-Enamel labially to the T-Dentine and blend over the incisal third.

Hint: To give maximum vitality to the restoration, Matchmaker MC T-Enamels are designed to be layered over the T-Dentine on the incisal third without the necessity for a more complex layering technique.



	Start Temp °C	Minimum Drying Time	Temp Rise °C / Min	Vacuum	High Temp °C	Hold Time Without Vacuum
Enhancer, T-Dentine, T-Enamel - 1st Firing	580	6 minutes	60	Yes	930	1 minute

Matchmaker MC T-Dentine and T-Enamel, 2nd Firing

After the first firing, the restoration should appear textured with a slight sheen (see opposite). Trim to the required shape using Schottlander K+M Green abrasives or laboratory diamonds. If any small additions or corrections are required, the surface should be lightly ground and thoroughly cleaned using a steam or ultrasonic cleaner.



Because of the low shrinkage of Matchmaker MC, additions at this stage should be minimal.

Hints: There are three different dentine liquids available.

1. Matchmaker MC Dentine Liquid is suitable for condensing techniques.
2. Matchmaker MC Dentine Plus has excellent modelling properties.
3. Matchmaker MC Modelling Liquid is suitable for large cases where increased drying time is essential.



Keep powders moist during build up to avoid drying out. If material on the glass slab or mixing dish dries out during use, only re-wet with **distilled water** and not the Dentine Liquid.

After firing, the surface should have a slight sheen and be smooth with the desired shape ready for any final adjustments and characterisation.



	Start Temp °C	Minimum Drying Time	Temp Rise °C / Min	Vacuum	High Temp °C	Hold Time Without Vacuum
T-Dentine, T-Enamel, Opal, - 2nd Firing	580	6 minutes	60	Yes	920	1 minute

Glaze and Stain Firing

Glaze firing without glaze powder

Make any final adjustments and characterise the surface by using Matchmaker Living Stains.

Note: that if a smoother surface is required after glazing, then the surface before final glaze must also have been made smoother using very fine abrasives or rubbers.

The unit must then be thoroughly cleaned using an ultrasonic or steam cleaner.

Introduce into furnace and fire on cycle shown below without vacuum. Increase High Temperature when higher glaze required and vice versa.

Glaze firing with glaze powder

Prepare crown or bridge as for glazing without glaze powder.

Mix the Matchmaker MC Glaze powder with the Glaze & Stain Liquid to a thin creamy consistency and apply as thinly as possible over the surface. Any excess should be removed with the brush.

Surface application using Matchmaker Living Stains

For surface staining mix Matchmaker Living Stains with Glaze & Stain Liquid and apply as required. These fluorescent stains are ideal for adjusting chroma and replicating the appearance and fluorescence of natural teeth.

Surface application using Matchmaker Classic Stains

Designed specifically for surface staining to reproduce the “lifestyle” effects of food, wine etc. They are denser and lie on the surface without fluorescing.

Care: Only Matchmaker Living Stains can be used internally. Mix with your usual dentine build-up liquid. Never use Glaze & Stain Liquid.

Hint: Small corrections and additions may be made at the glaze stage either by mixing 20% Glaze Powder with the appropriate Dentine or Enamel powder or by using Matchmaker LF Low Fusing Porcelain.

After adding, vibrate lightly and leave the surface wet. Glaze as above.

Matchmaker Living Stains

Shade	Code	Shade	Code
White	616-01	Grey	616-08
Yellow	616-02	Red Brown	616-09
Peach	616-03	Black	616-10
Orange Brown	616-04	A	616-A
Dark Brown	616-05	B	616-B
Pink	616-06	C	616-C
Blue	616-07	D	616-D



	Start Temp °C	Minimum Drying Time	Temp Rise °C / Min	Vacuum	High Temp °C	Hold Time Without Vacuum
Glaze without Glaze Powder	580	6 minutes	60	No	930-940	1-2 minutes
Glaze with Glaze Powder	580	6 minutes	60	No	920	1-2 minutes

Matchmaker MC Multi-Layering Technique

Matchmaker MC is ideal where cases require a multi-layering technique since the whole colour palette is available to the ceramic artist. Apply Propaque as with the simpler technique, before application of the wide range of Shoulder powders. Following application of Matchmaker Enhancers use one or more powders from the extensive range of Matchmaker Master Modifiers together with the Standard Dentines and layer the enamels over the labial surface - just like natural enamel. With the Matchmaker extensive range of powders you can achieve whatever your imagination dictates. Freedom for the true artist in ceramics.



Propaque Paste Opaque, 1st Firing

Two coats of Propaque Paste Opaque of equal thickness are recommended. The first to establish a bond to the alloy surface and the second to completely mask the alloy and oxide.

Moisten the brush in clean water and remove any excess from the bristles. Dispense the chosen shade of Propaque into the appropriate well. Apply with even strokes in one direction.

Avoid over brushing and apply as thinly as possible to just mask the alloy.

Fire according to table below.



After firing, the surface should have a slight sheen.

Notes: The brush should only be damp. If it is wet, then control and coverage of Propaque are lost.

Firing cycle below is for precious and semi-precious alloys. For non-precious alloys increase High Temperature by 30°C*.

If thinning Propaque use a very small amount of Matchmaker Glaze & Stain Liquid.



Propaque Paste Opaque	Start Temp °C	Minimum Drying Time	Temp Rise °C / Min	Vacuum	High Temp °C	Hold Time Without Vacuum
Propaque 1st Firing	550	8 minutes	80	Yes	980 *	1 minute

Propaque Paste Opaque, 2nd Firing

After allowing the coping to cool apply a second, thin coat of Propaque Paste Opaque.



Either use the shade concerned on its own or mix with Propaque modifiers or any other Propaque shade.

Fire according to the table below.



After firing the surface should appear textured with a slight sheen.

Hints: Brush should be only damp. If it is wet, then control and coverage of Propaque are lost.

If thinning Propaque use a minute amount of Matchmaker Glaze & Stain Liquid.



Propaque Paste Opaque	Start Temp °C	Minimum Drying Time	Temp Rise °C / Min	Vacuum	High Temp °C	Hold Time Without Vacuum
Propaque 2nd Firing	550	8 minutes	80	Yes	960	1 minute

Matchmaker MC Powder Opaque, 1st Firing

Two applications of Matchmaker MC Powder Opaque are recommended. The first to establish a bond to the alloy surface and the second to fully mask the alloy and oxide.

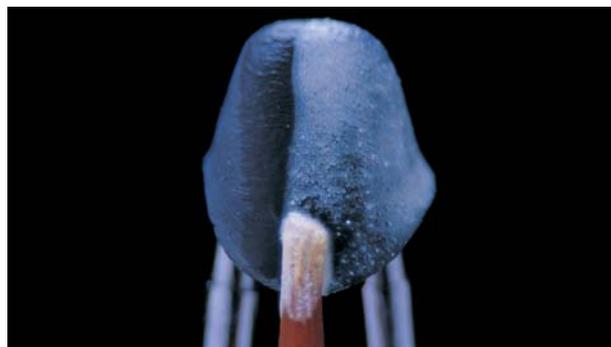
Moisten the oxidised alloy with opaque liquid. This helps to "wet" the oxide layer and prevents the occurrence of minute voids between metal and fired opaque. The opaque powder of the chosen shade should be mixed with the Matchmaker MC Opaque Liquid to a thin, creamy consistency.



Apply a thin layer of mixed opaque with a brush or instrument and tap lightly - this will ensure close contact with the alloy.

Fire according to the table below.

Note: For non-precious alloys increase high temperature by 20°C.



The fired opaque should have a textured surface with a slight sheen.



Matchmaker MC Powder Opaque	Start Temp °C	Minimum Drying Time	Temp Rise °C / Min	Vacuum	High Temp °C	Hold Time Without Vacuum
1st Firing	580	2 minutes	80	Yes	980	1 minute

Matchmaker MC Powder Opaque, 2nd Firing

After firing allow to cool. Wet the fired opaque with Opaque Liquid. Matchmaker MC Powder Opaque Blenders can be mixed with the opaque of the chosen shade and applied in suitable areas. Violet (OB24) is particularly useful if mixed 10-15% with the chosen opaque and applied in the area towards the incisal third. This will help to give a more natural transition between the opaque and dentine.

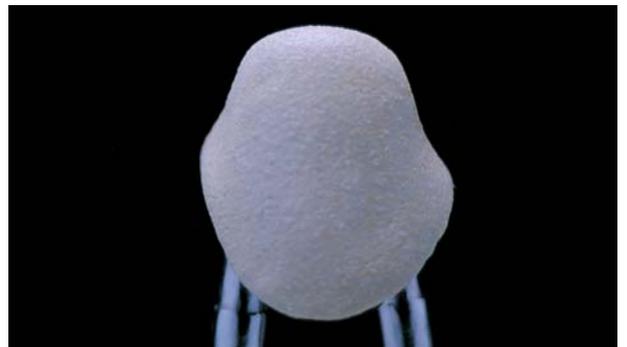


Apply a second covering layer of mixed opaque as before.

Fire according to the table below.



The fired opaque should have a textured surface with a slight sheen.



Matchmaker MC Powder Opaque	Start Temp °C	Minimum Drying Time	Temp Rise °C / Min	Vacuum	High Temp °C	Hold Time Without Vacuum
2nd Firing	580	4 minutes	80	Yes	950	1 minute

Matchmaker MC Shoulder Powder, 1st Firing

Seal the model with at least two applications of Matchmaker MC Model Sealant. This has minimal thickness. Then lubricate the edges of the die using the Matchmaker MC Ceramic Separating Pen.

If the colour of the shoulder needs modifying then any of the Matchmaker MC Shoulder modifiers S1 - S4 may be used either on their own or with any other Shoulder Powder.

If the intensity of the shade needs to be reduced, then use Matchmaker MC Shoulder S0 Neutral either on its own or in 50/50 combination.

When space is limited use Matchmaker MC Shoulder S5 Opaque to increase opacity of the chosen shade.

Place the opaqued and fired coping back onto the model ensuring that it is fully seated. Mix the Matchmaker MC Shoulder Powder to a creamy consistency with the Shoulder Liquid and apply to the shoulder area.

The surface of the Shoulder should be convex to minimise the shrinkage during firing.

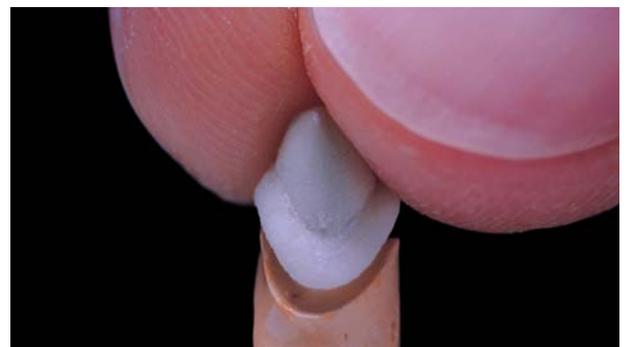
Remove excess moisture with a tissue.

Allow to partially dry until the powder begins to lighten in colour. This can be accelerated by the application of gentle heat or warm air.

The finished and fired porcelain shoulder should be convex, have a slight sheen and fit precisely to the model.

Hints: A minimum 0.5mm around the whole circumference of the shoulder is required for support.

Metalwork can either be extended to the whole depth of the preparation or, in order to give greater light transmission, can be left up to 2mm from the edge of the shoulder.



Matchmaker MC Shoulder	Start Temp °C	Minimum Drying Time	Temp Rise °C / Min	Vacuum	High Temp °C	Hold Time Without Vacuum
1st firing	600	2 minutes	80	Yes	950	1 minute

Matchmaker MC Shoulder Powder, 2nd Firing

When the coping has cooled the die should once more be lubricated using the Matchmaker MC Ceramic Separating Pen and the coping placed on it.

Firing shrinkage can be seen around the margins.



Add additional Shoulder Powder to compensate for any firing shrinkage.

Although two firings are normally sufficient, the stability of Matchmaker MC Shoulder Powder permits further firings to be carried out if required.



The finished and fired porcelain shoulder should be convex, have a slight sheen and fit precisely to the model.

Hint: Always re-lubricate the die using the Matchmaker MC Ceramic Separating Pen before the coping is replaced onto it.

Care: Always ensure the die and inside of the coping are clean before replacement of coping on die.



Matchmaker MC Shoulder	Start Temp °C	Minimum Drying Time	Temp Rise °C / Min	Vacuum	High Temp °C	Hold Time Without Vacuum
2nd firing	600	4 minutes	80	Yes	940	1 minute

Applications of Matchmaker MC Enhancer - Giving the Crown Depth & Form

Natural teeth are individually well defined in the mouth and appear to have depth as well as form. Artificial crowns, on the other hand, very often appear only to exist near the buccal surface.

To build the illusion of depth and form using Matchmaker MC Metal Ceramic, when cutting back the first dentine build-up, cut back palatally as shown ready for application of enamel.

Hint: To avoid grey margins Matchmaker MC Shoulder Powder (S5 Opaque) can be applied to the cervical edge of the coping.



At the same time, cut back the labial aspects mesially and distally to make space for the Matchmaker MC Enhancer (see drawing).

The mesial cut back should be greater than that for the distal.



Apply Matchmaker MC Enhancer to these areas either using the same shade as the dentine or mix 50/50 with the shade darker.



	Start Temp °C	Minimum Drying Time	Temp Rise °C / Min	Vacuum	High Temp °C	Hold Time Without Vacuum
Enhancer, Dentine, Enamel, Opal, Opacious Dentine, Colour Translucents, Fluorescent, Mamelons and Occlusals - 1st Firing	580	6 minutes	60	Yes	930	1 minute

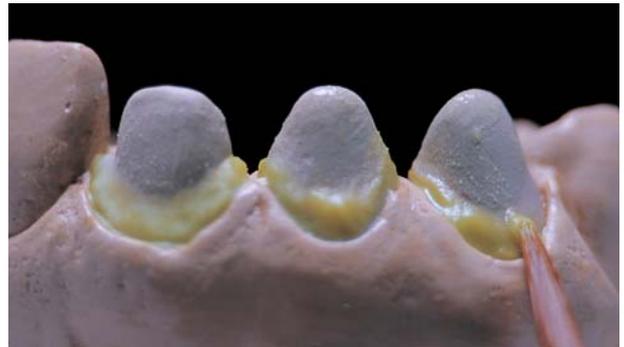
Further Applications of Matchmaker MC Enhancer

Masking the cervical opaque effect

To avoid darkening at the margin when a shoulder technique is not used and to strengthen the depth of colour at the neck of the pontic, apply Matchmaker MC Enhancer as shown before dentine build up.

The light will be softened and diffused in this area and the colour brought nearer to that of the dentine body.

Hint: For a darker neck shade use the next shade up of Matchmaker MC Enhancer.



Strengthening dentine colour in the middle third

Where space is limited and the opaque is expected to have too great an influence in the middle third of the tooth, apply Matchmaker MC Enhancer as shown before dentine build up. Matchmaker MC Enhancer creates an illusion of greater porcelain depth and compensates for insufficient dentine thickness.

Hint: Do not use this technique when ceramic thickness is greater than 1.0 mm since dentine colour will become too strong. In these areas, Matchmaker MC Dentine on its own gives best results.



Diffusing metal/opaque outline

When the porcelain is thin, or in lighter and more translucent shades the outline of the opaqued metalwork can often be seen in the mouth especially under certain lighting conditions.

Before commencing dentine build-up, apply Matchmaker MC Enhancer where the metal/opaque finishes.

The Matchmaker MC Enhancer creates a 'diffusion zone' in this area.



	Start Temp °C	Minimum Drying Time	Temp Rise °C / Min	Vacuum	High Temp °C	Hold Time Without Vacuum
Enhancer, Dentine, Enamel, Opal, Opacious Dentine, Colour Translucents, Fluorescent, Mamelons and Occlusals - 1st Firing	580	6 minutes	60	Yes	930	1 minute

Matchmaker MC Enhancer, Dentine and Enamel, 1st Firing (1)

Mix the Matchmaker MC Enhancer powder with Enhancer Liquid and the Matchmaker MC Dentine and Enamel powders with the chosen Dentine Liquid to obtain a creamy consistency in all cases.

Moisten the fired opaque with Dentine Liquid.

Apply the Enhancer in a thin layer depending upon the application (see Applications for Matchmaker MC Enhancer pages 16-17).



Build up the labial anatomical form of the crown with dentine material.

Once the anatomical form has been contoured, over build slightly in length to allow for minimal shrinkage during firing. Reduce the dentine incisally, buccally, mesially and distally to allow for the enamel.

Remove the restoration from the model and build up the contact points with the appropriate Dentine, Enhancer or Enamel porcelains. Interdental spaces on bridgework should be separated to the opaque with a sharp blade.



Apply the Enamel labially to the Dentine and blend towards the cervical margin.

Hint: To give maximum vitality to the restoration, Matchmaker MC Enamels are designed to be layered over the Dentine to the cervical third without the necessity to remove large amounts of Dentine from the incisal area.



	Start Temp °C	Minimum Drying Time	Temp Rise °C / Min	Vacuum	High Temp °C	Hold Time Without Vacuum
Enhancer, Dentine, Enamel, Opal, Opacious Dentine, Colour Translucents, Fluorescent, Mamelons and Occlusals - 1st Firing	580	6 minutes	60	Yes	930	1 minute

Matchmaker MC Enhancer, Dentine and Enamel, 1st Firing (2)

Continue the palatal build-up of Enamels over the already applied Matchmaker MC Enhancer and Dentine.



Remove the restoration from the model and build up the contact points with the appropriate Matchmaker MC Dentine and Enamel.

Note: Use of Matchmaker MC Enhancer interstitially increases the chroma and reduces the likelihood of subsequently applied Enamel appearing grey in the mouth.

Transfer onto a honeycombe firing tray. Ensure the furnace programme and start temperature are correct and that the ambient temperature of the firing muffle is no higher than the start temperature shown below.



Complete the interstitial and incisal build-up by overlaying with Enamel, allowing for any shrink back during firing.

Interdental spaces on bridgework should be fully shaped or separated to the opaque with a sharp blade.

After firing the surface should appear textured with a slight sheen.

Hint: Take care to avoid under-firing the first dentine firing.



	Start Temp °C	Minimum Drying Time	Temp Rise °C / Min	Vacuum	High Temp °C	Hold Time Without Vacuum
Enhancer, Dentine, Enamel, Opal, Opacious Dentine, Colour Translucents, Fluorescent, Mamelons and Occlusals - 1st Firing	580	6 minutes	60	Yes	930	1 minute

Matchmaker MC Enhancer, Dentine and Enamel, 2nd Firing

After the first firing, the restoration should appear textured with a slight sheen (see opposite). Trim to the required shape using Schottlander K+M Green abrasives or laboratory diamonds. If any small additions or corrections are required, the surface should be lightly ground and thoroughly cleaned using a steam or ultrasonic cleaner.



Because of the low shrinkage of Matchmaker MC, additions at this stage should be minimal.

Hints: There are three different dentine liquids available.

1. Matchmaker MC Dentine Liquid is suitable for condensing techniques.
2. Matchmaker MC Dentine Plus has excellent modelling properties.
3. Matchmaker MC Modelling Liquid is suitable for large cases where increased drying time is essential.



Keep powders moist during build up to avoid drying out. If material on the glass slab or mixing dish dries out during use, only re-wet with **distilled water** and not the Dentine Liquid.

After firing, the surface should have a slight sheen and be smooth with the desired shape ready for any final adjustments and characterisation.



	Start Temp °C	Minimum Drying Time	Temp Rise °C / Min	Vacuum	High Temp °C	Hold Time Without Vacuum
Enhancer, Dentine, Enamel, Opal, Opacious Dentine, Colour Translucents, Fluorescent, Mamelons and Occlusals - 2nd Firing	580	6 minutes	60	Yes	920	1 minute

Glaze and Stain Firing

Glaze firing without glaze powder

Make any final adjustments and characterise the surface by using Matchmaker Living Stains.

Note: that if a smoother surface is required after glazing, then the surface before final glaze must also have been made smoother using very fine abrasives or rubbers.

The unit must then be thoroughly cleaned using an ultrasonic or steam cleaner.

Introduce into furnace and fire on cycle shown below without vacuum. Increase High Temperature when higher glaze required and vice versa.

Glaze firing with glaze powder

Prepare crown or bridge as for glazing without glaze powder.

Mix the Matchmaker MC Glaze powder with the Glaze & Stain Liquid to a thin creamy consistency and apply as thinly as possible over the surface. Any excess should be removed with the brush.

Surface application using Matchmaker Living Stains

For surface staining mix Matchmaker Living Stains with Glaze & Stain Liquid and apply as required. These fluorescent stains are ideal for adjusting chroma and replicating the appearance and fluorescence of natural teeth.

Surface application using Matchmaker Classic Stains

Designed specifically for surface staining to reproduce the “lifestyle” effects of food, wine etc. They are denser and lie on the surface without fluorescing.

Care: Only Matchmaker Living Stains can be used internally. Mix with your usual dentine build-up liquid. Never use Glaze & Stain Liquid.

Hint: Small corrections and additions may be made at the glaze stage either by mixing 20% Glaze Powder with the appropriate Dentine or Enamel powder or by using Matchmaker LF Low Fusing Porcelain.

After adding, vibrate lightly and leave the surface wet. Glaze as above.

Matchmaker Living Stains

Shade	Code	Shade	Code
White	616-01	Grey	616-08
Yellow	616-02	Red Brown	616-09
Peach	616-03	Black	616-10
Orange Brown	616-04	A	616-A
Dark Brown	616-05	B	616-B
Pink	616-06	C	616-C
Blue	616-07	D	616-D



	Start Temp °C	Minimum Drying Time	Temp Rise °C / Min	Vacuum	High Temp °C	Hold Time Without Vacuum
Glaze without Glaze Powder	580	6 minutes	60	No	930-940	1-2 minutes
Glaze with Glaze Powder	580	6 minutes	60	No	920	1-2 minutes

matchMaker
Metal Ceramic
MC

Perfect shades
straight from the bottle



Matchmaker MC Master Ceramist Palette

The complete colour palette for the ceramic artist,
offering the capability to match any clinical
appearance in the mouth.



Using the Matchmaker Shade Guides

Unlike a shade guide for the basic colours, which may relate to the whole tooth, the colours being matched by powders in the Matchmaker MC Master Ceramist Kit are normally found in specific and smaller areas of the tooth.

The shade tab must, therefore, be small enough not to overwhelm the tooth, be able to be brought close to it and, when necessary, to be looked at alongside other colours not normally found next to it on the guide.

The arms are all removable and although supplied as sets, can be rearranged in any way required.

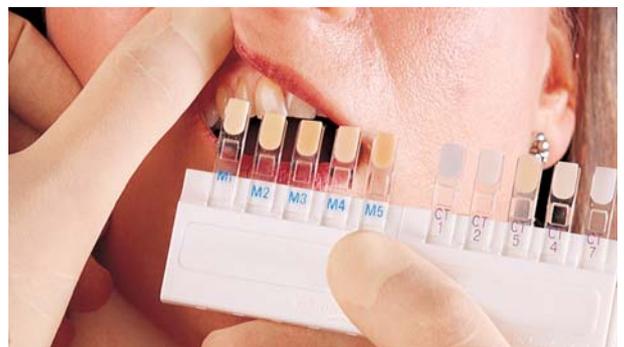
The holders click together to form guides in multiples of five arms and can be clicked apart again after use.

The Dentist and Laboratory can decide on the combination of colours with which they want to work – either permanently or for a particular case. If required, this combination may be only part of the range available.

The Matchmaker guide is easily brought up to the tooth when writing the prescription.

Matchmaker MC Master Ceramist	Arms
Opal Colour Shade Guide	5
Colour Transluents/Fluorescent Neutral Shade Guide	8
Opacious Dentine Shade Guide	7
Master Powder and Gingival Shade Guide	14
Occlusal Shade Guide	5
Mamelon Shade Guide	5

Matchmaker MC	Arms
Dentine Shade Guide	16
Enhancer Shade Guide	16
Enamel Shade Guide	7
Opal Lustre Shade Guide	5
Full Shoulder Shade Guide	22
Bleach Shade Guide	4
Essentials Shoulder Shade Guide (S31-S35)	5



Giving the Crown an Opalescent Effect using Matchmaker MC Opal Enamels

Opalescence is often more pronounced in younger patients and is found in the incisal area.

In reflected light the crown appears blue/white.



In transmitted light the crown appears orange.

Opalescence gives the crown a natural vitality and beauty.



Matchmaker MC Opal Powders give the ceramist the means of achieving more beautiful crowns.

They maintain their opalescence through repeated firings and have great stability.

Where the laboratory does not have sight of the patient and the degree of opalescence cannot be judged, then use Matchmaker MC Opal Enamels OL7, OL8, OL9 and OL10

Layer as for a normal enamel as part of the first dentine build up. Fire together with the dentine using the same firing cycle.



Matchmaker MC Opal Enamels	Start Temp °C	Minimum Drying Time	Temp Rise °C / Min	Vacuum	High Temp °C	Hold Time Without Vacuum
Enhancer, Dentine, Enamel, Opal, Opacious Dentine, Colour Transluents, Fluorescent, Mamelons and Occlusals - 1st Firing	580	6 minutes	60	Yes	930	1 minute

Giving the Crown an Opalescent Effect Palatally using Matchmaker MC Opal Colours

This technique is best used where the laboratory has sight of the patient and is able to judge the degree of opalescence of the surrounding teeth in the mouth.

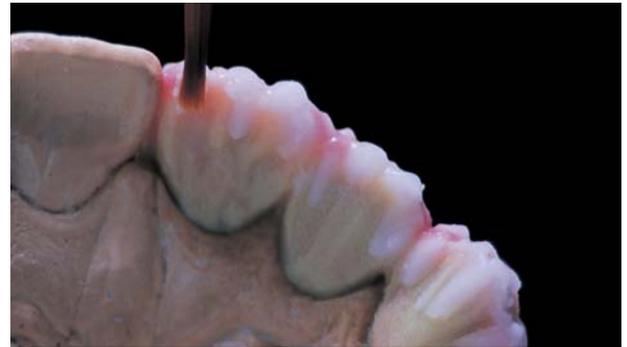
There are five Matchmaker MC Opal Colours which may be used – Blue, White, Orange, Neutral and Translucent.

Mix with Dentine Liquid in the normal way. These powders should be applied palatally/lingually but never on the labial surface.



After first dentine build up, cut away the dentine in the normal way but allow additional space palatally/lingually.

Lay in the chosen shade of Matchmaker MC Opal Powder.



Layer the enamel over the top. Either Matchmaker MC Enamels or Opal Lustre Enamels may be used depending upon the degree of opalescence required.

Hint: Beautiful and natural effects can be obtained with Matchmaker MC Opal Colours. Please note, however, that if too much opalescence is added then the crown may look superb on the model but grey in the mouth.



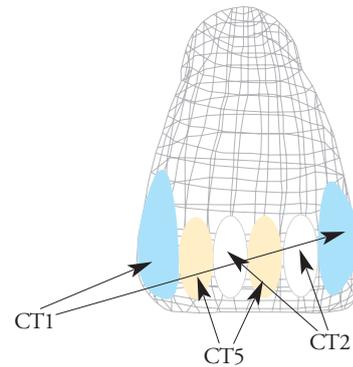
Matchmaker MC Opal Colours	Start Temp °C	Minimum Drying Time	Temp Rise °C / Min	Vacuum	High Temp °C	Hold Time Without Vacuum
Enhancer, Dentine, Enamel, Opal, Opacious Dentine, Colour Transluents, Fluorescent, Mamelons and Occlusals - 1st Firing	580	6 minutes	60	Yes	930	1 minute

Building Translucent Colours into the Crown

Natural teeth are made up from soft and subtle colours. These translucent colours are found not just incisally but cervically as well.

This may be reproduced using the Matchmaker MC Colour Translucent powders.

Their power comes when they are laid alongside complementary colours – see diagram opposite.



Lay down the Matchmaker MC Colour Translucent powders using a lateral segmental build up technique. Commonly used Matchmaker MC Colour Translucent powders are CT1 Blue, CT2 White, CT4 Yellow and CT5 Orange.



Overlay with the regular Matchmaker MC Enamel or mix 50/50 with Matchmaker MC Neutral. The resultant crown or bridge will reflect the harmonic variations of natural teeth.



Matchmaker MC Colour Transluents	Start Temp °C	Minimum Drying Time	Temp Rise °C / Min	Vacuum	High Temp °C	Hold Time Without Vacuum
Enhancer, Dentine, Enamel, Opal, Opacious Dentine, Colour Transluents, Fluorescent, Mamelons and Occlusals - 1st Firing	580	6 minutes	60	Yes	930	1 minute

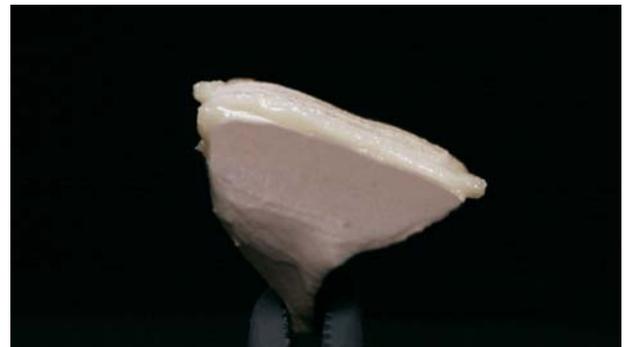
Increasing fluorescence using Matchmaker MC Fluorescent Neutral

To increase fluorescence where space is limited
- providing vital aesthetics

Natural teeth change their appearance depending on the light falling on them. Under Ultra Violet lighting the degree of fluorescence of different teeth can vary greatly. This is an effect that can be difficult to reproduce in a crown, especially where space is limited.



Matchmaker MC Fluorescent Neutral is a unique powder that is highly fluorescent. Mix one part (20%) Matchmaker MC Fluorescent Neutral with four parts of the relevant shade of Matchmaker Enhancer Powder and apply a thin layer over the opaque before building up the dentine. Where space is extremely limited, complete the crown build-up in Enhancer in place of the Dentine. Vary the proportion of Matchmaker MC Fluorescent Neutral depending on the fluorescence of the natural teeth on either side.



The resultant crown will mimic the natural tooth.



Further Applications using Matchmaker MC Fluorescent Neutral

Disguising the silhouette of the incisal edge of a coping

To disguise the incisal edge apply a thin layer of 20% of Matchmaker MC Fluorescent Neutral to 80% of the relevant shade of Matchmaker MC Enhancer over the opaque, extending slightly over the incisal edge of the coping in a wispy and irregular manner.

Apply the dentine and enamel over the top as normal.

The sharp outline of the incisal edge will be disguised.



To mimic variations in fluorescence within a crown

Where possible it is always of benefit to record the patients shade using a variety of lighting conditions such as natural daylight, fluorescent strip lighting, colour matching lamps etc.

Use a UV strip light to record any areas of greater fluorescence.



Apply a thin layer of a mix of 10% Matchmaker MC Fluorescent Neutral to 90% of the relevant shade of Matchmaker MC Dentine over the dentine in those areas. Then apply a thin layer of the corresponding enamel to complete the final build up.

Note: Matchmaker MC Fluorescent Neutral is extremely strong and must never be used on its own but always be mixed with either Matchmaker MC Enhancer or Dentine.



Building in Mamelons

Mamelons occur naturally in teeth and when built into crowns are a way of breaking up the light passing through the crown in order to give it a natural look. The Matchmaker MC Mamelons M1 Barley, M2 Oat, M3 Corn, M4 Rye, M5 Maize can be matched in the mouth by means of the Matchmaker MC Shade Guides. Alternatively, mamelon colour can be allocated in accordance with the chart alongside.



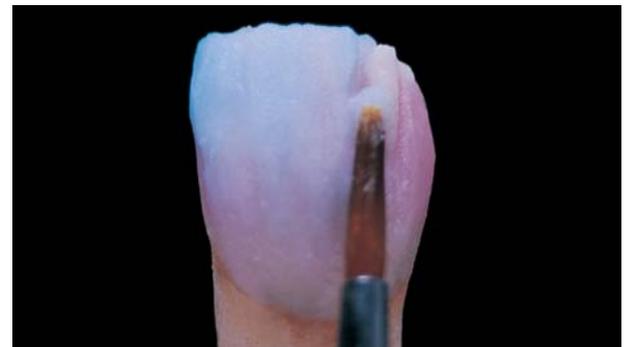
At the first dentine build up, cut back the dentine and lay mamelons on the top as shown.

Mamelon Colours

M1 Barley	use with A1 B1 B2
M2 Oat	use with B3 B4 C1 C2 C3 C4 D4
M3 Corn	use with A3.5
M4 Rye	use with A2 A3 D2
M5 Maize	use with A4 D3



Overlay enamel on top in the usual manner and fire with 1st dentine firing.



Matchmaker MC Mamelons	Start Temp °C	Minimum Drying Time	Temp Rise °C / Min	Vacuum	High Temp °C	Hold Time Without Vacuum
Enhancer, Dentine, Enamel, Opal, Opacious Dentine, Colour Translucents, Fluorescent, Mamelons and Occlusals - 1st Firing	580	6 minutes	60	Yes	930	1 minute

Building Occlusal Tables and Natural Cusps

Occlusal tables and natural cusps not only make the crown look more natural but are appreciated by patients as giving life and vitality to the restoration.

The Matchmaker MC Occlusals enable both effects to be built up.

Build up the dentine for the first dentine application in the normal way and substitute with a layer of either Matchmaker MC Occlusal OC3 Honey, OC4 Amber or OC5 Caramel over the occlusal area. Continue building the occlusal surface with dentine and enamel.



The colour of the occlusal or cusp should be chosen by means of using the Matchmaker MC Shade Guide.

When building up cusps use either OC1 Ice Cap or OC2 Snow Cap depending upon the colour of cusp in the mouth.



Apply enamels as required and fire as per first dentine firing.

Hint: The depth of colour will be determined by the amount of Matchmaker MC Occlusal powder used and the thickness of overlying Dentine. For a stronger colour use more Matchmaker MC Occlusal and less Dentine.



Matchmaker MC Occlusals	Start Temp °C	Minimum Drying Time	Temp Rise °C / Min	Vacuum	High Temp °C	Hold Time Without Vacuum
Enhancer, Dentine, Enamel, Opal, Opacious Dentine, Colour Translucents, Fluorescent, Mamelons and Occlusals - 1st Firing	580	6 minutes	60	Yes	930	1 minute

Building in a Clear Window

Clear windows often occur in natural teeth. With the Matchmaker MC Enamels there is a choice of three powders.

Matchmaker MC Ultra Clear, Clear or Neutral should be used to build them depending on the clarity of the window itself.



After completing the first dentine build up as normal, remove dentine and enamel from the area where the window is required. Replace this with whichever of the three Matchmaker MC Enamels that best matches the clarity of the window required.



The resultant window is natural and vital.



Matchmaker MC Enamels	Start Temp °C	Minimum Drying Time	Temp Rise °C / Min	Vacuum	High Temp °C	Hold Time Without Vacuum
Enhancer, Dentine, Enamel, Opal, Opacious Dentine, Colour Translucents, Fluorescent, Mamelons and Occlusals - 1st Firing	580	6 minutes	60	Yes	930	1 minute

Building Decalcification Points

Decalcification points are usually at or near the surface. Although they may be anywhere on the incisal third of the tooth, they are usually built near the edge.

Build up the first dentine firing in the normal way including the layering of enamels.

When layering has been completed cut away a small area in the position required.

Lay Matchmaker MC Master Modifier powder MM1 White into the depression formed and cover with enamel.

The resultant decalcification point is natural and breaks up the regularity of the crown.

Note: In the mouth these effects vary greatly. Patients usually prefer them to be subtle rather than obvious.

Hints: To reduce the strength of the decalcification points, either use Matchmaker MC Occlusal Colours OC1 Ice Cap or OC2 Snow Cap. An alternative method is to use Matchmaker MC Master Modifier MM1 White 50/50 with MM0 Neutral.

For the most natural appearance of decalcification points, ensure that edges are irregular.



	Start Temp °C	Minimum Drying Time	Temp Rise °C / Min	Vacuum	High Temp °C	Hold Time Without Vacuum
Enhancer, Dentine, Enamel, Opal, Opacious Dentine, Colour Translucents, Fluorescent, Mamelons and Occlusals - 1st Firing	580	6 minutes	60	Yes	930	1 minute

Building in a 'Halo' Effect

Natural teeth often exhibit a 'halo' effect around the incisal edge where the incisal enamel frames a slightly denser, less translucent colour.

To reproduce this effect of nature in a ceramic restoration, build up the crown to full contour as usual and cut back the palatal/incisal area as shown below.



Select a Matchmaker MC Dentine or Enhancer colour similar to the 'halo' colour required and mix to a creamy consistency with the chosen liquid. Apply to the incisal area on the palatal aspect of the build-up as shown opposite.



Once the material has been placed to form the 'halo', cover with a thin layer of the same Matchmaker MC Enamel as previously used for build-up.

Hints: If unable to have sight of the patient, Matchmaker MC Enhancer B1 is suitable for most cases.

Avoid making the 'halo' too deep as they are usually very fine in natural teeth.



	Start Temp °C	Minimum Drying Time	Temp Rise °C / Min	Vacuum	High Temp °C	Hold Time Without Vacuum
Enhancer, Dentine, Enamel, Opal, Opacious Dentine, Colour Translucents, Fluorescent, Mamelons and Occlusals - 1st Firing	580	6 minutes	60	Yes	930	1 minute

matchMaker
Metal Ceramic
MC

Perfect shades
straight from the bottle

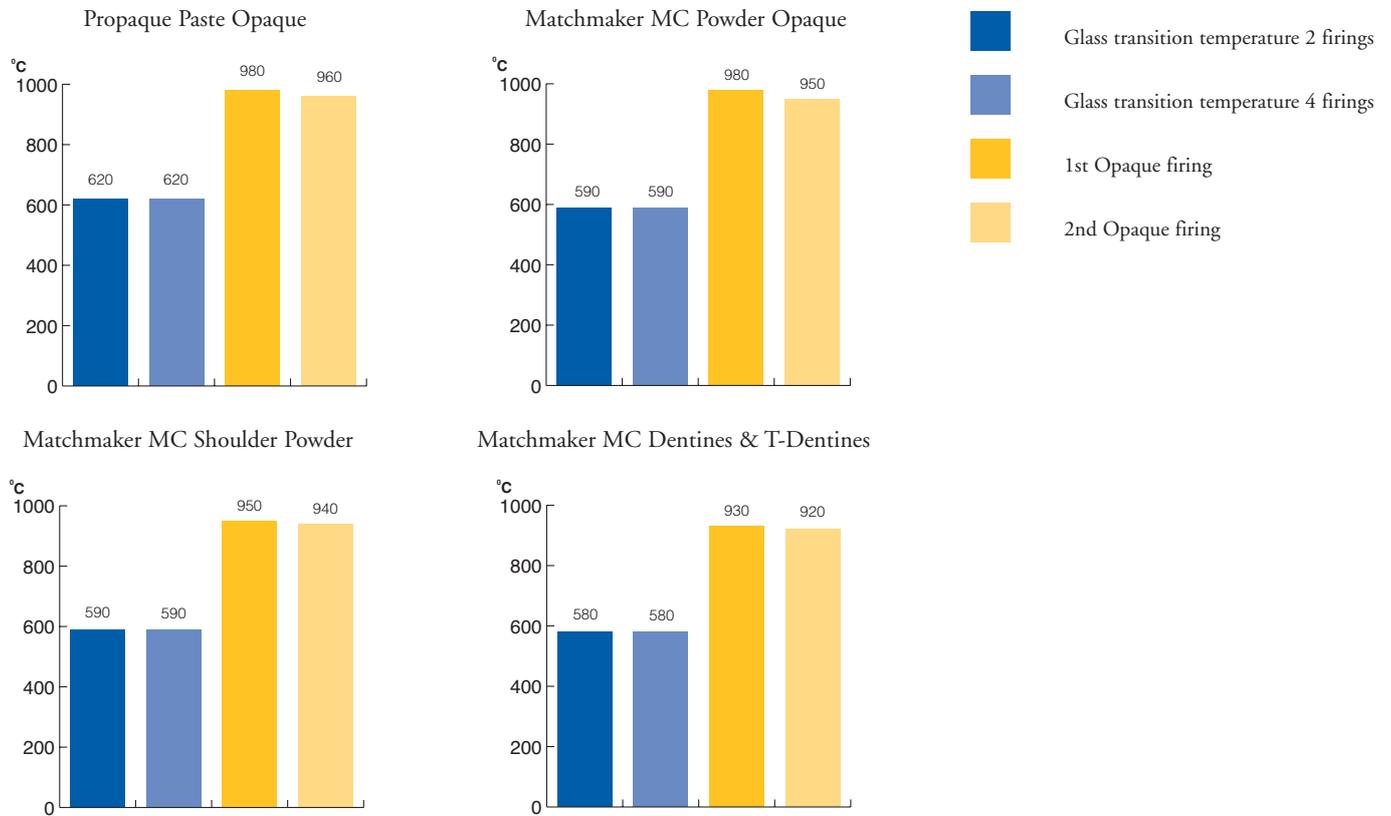


Physical Properties

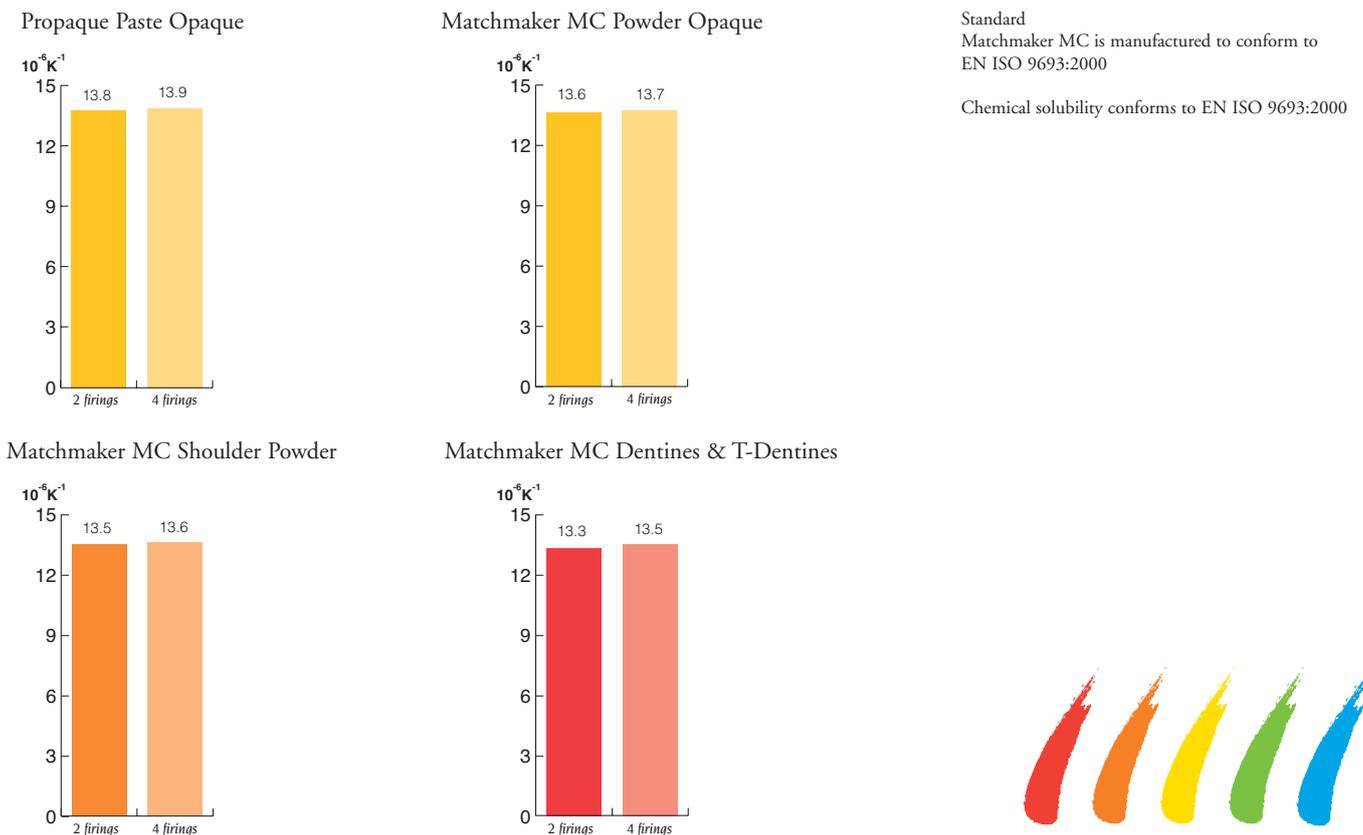


Physical Properties 1

Thermal temperature information

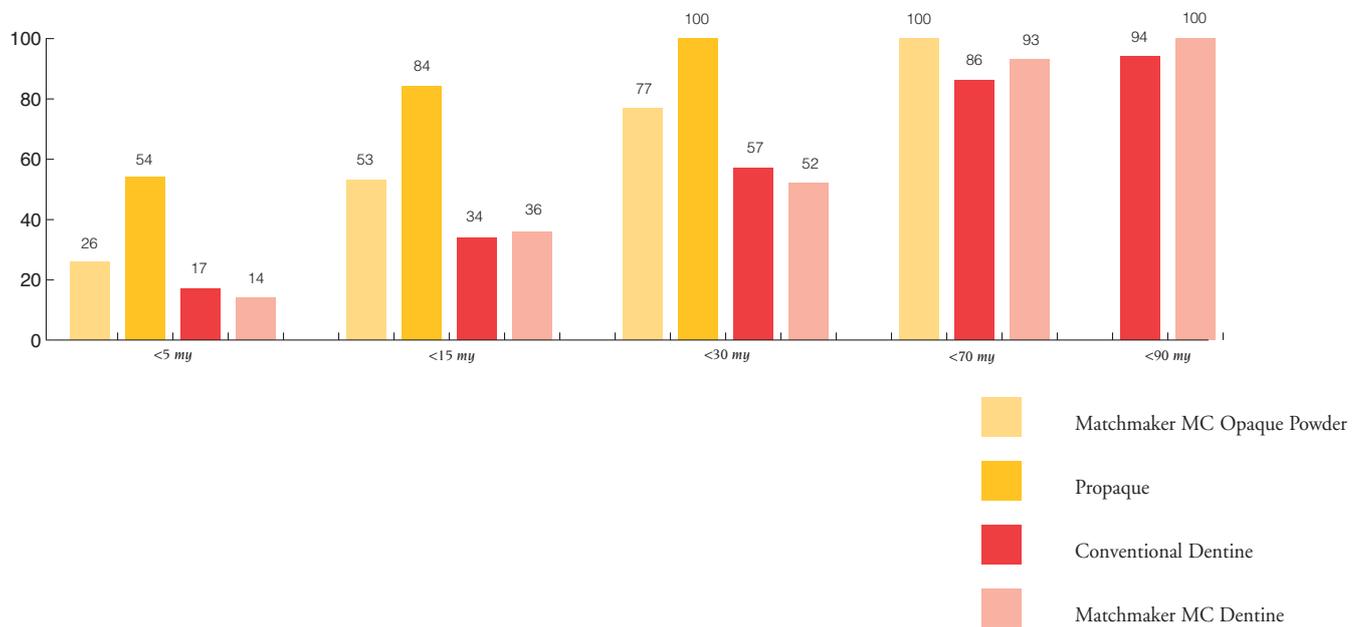


Coefficient of linear thermal expansion 25°C - 500°C

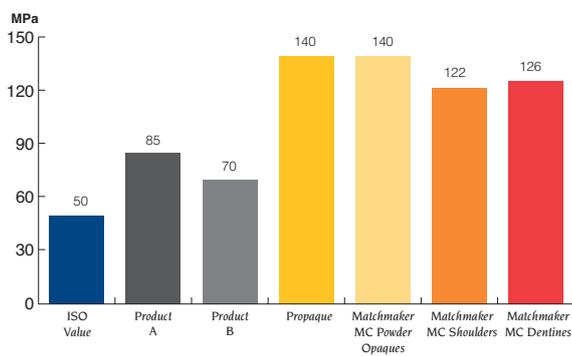


Physical Properties 2

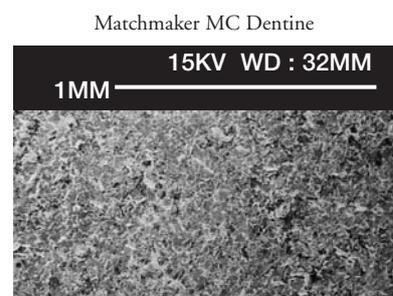
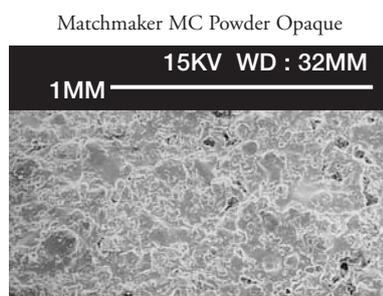
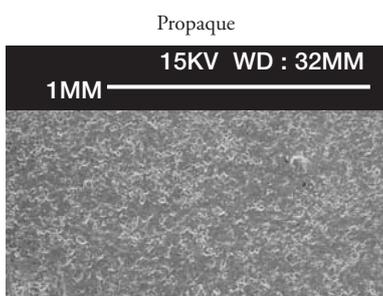
Particle size distribution



Flexural strength in accordance with EN ISO 9693:2000



SEMs showing surface profile



Overview of Matchmaker MC and Propaque Firing Instructions

Matchmaker MC	Start Temp °C	Minimum Drying Time	Temp Rise °C / Min	Vacuum	High Temp °C	Hold Time Without Vacuum	Appearance
Oxidation	Refer to the alloy manufacturer's instruction						
Pontic Fill	550	6 min	80	Yes	980	1 min	
Propaque 1st firing	550	8 min	80	Yes	980	1 min	Slight sheen
Propaque 2nd firing	550	8 min	80	Yes	960	1 min	Textured, slight sheen
Powder Opaque 1st firing	580	2 min	80	Yes	980	1 min	Textured, slight sheen
Powder Opaque 2nd firing	580	4 min	80	Yes	950	1 min	Textured, slight sheen
Shoulder 1st firing	600	2 min	80	Yes	950	1 min	Slight sheen
Shoulder 2nd firing	600	4 min	80	Yes	940	1 min	Slight sheen
Dentine, Enhancer, Enamel etc 1st firing	580	6 min	60	Yes	930	1 min	Textured, slight sheen
Dentine, Enhancer, Enamel etc 2nd firing	580	6 min	60	Yes	920	1 min	Slight sheen
Glaze with Glaze Powder	580	6 min	60	No	920	1-2 min	Glaze
Glaze without Glaze Powder	580	6 min	60	No	930-940	1-2 min	Glaze depending on requirements
Post Ceramic Soldering* (780°C solder)	600	2 min	60	-	830	-	

* The soldering investment model should be as small as possible. Dry it in a preheating furnace for 10-20 minutes at 200°C. Then transfer the model to the porcelain furnace to complete the soldering cycle, and cool the soldered restoration in accordance with the alloy used.

All temperatures given are based on an accurately calibrated vertical muffle furnace. Individual furnaces and operating conditions vary. Temperatures are based upon precious and semi-precious alloys with good thermal conductivity. If non-precious alloys are used an increase in temperature may be necessary. Shake all powder bottles before use.

It is important to ensure that ceramics are fired at the correct temperatures in furnaces that are regularly calibrated, carefully following the instructions of the furnace manufacturer concerned. The following are some additional tips that customers have found helpful:

1. Silver calibration provides a visual indication at 961°C. However in many furnaces lower temperatures may still be inaccurate.
2. Adjust the high temperature until the visual appearance of the fired ceramic is in accordance with that shown in the manual, i.e. a correctly fired first opaque layer should exhibit a slight sheen. Adjustments of the same proportion should be made to other firing cycles.
3. In order to achieve the above appearance when using non precious alloys it is frequently necessary to increase the High Temperature of the first opaque firing by approx 20°C. The second firing should be made at the normal temperature for precious alloys.
4. Select a firing tray that is routinely used, Schottlander honeycomb trays and pins absorb less heat and are recommended for all ceramic crowns.
5. Always use the firing tray when calibrating your furnace.



match *Maker*
Pressable Ceramic System

PRESS

Matchmaker Press is designed for "all-ceramic" crowns as well as inlays, onlays and veneers. Its special leucite and glass matrix imparts strength in excess of the requirements of EN ISO 6872 together with optical properties which blend seamlessly with the natural tooth. Within the Matchmaker Press system are many ancillary products that help both dentists and technicians to obtain superb results time after time.



match *Maker*
Low Fusing Ceramic

LF

Matchmaker LF has been developed both for metal ceramic crowns and bridges and also as a veneering ceramic on top of Matchmaker Press ceramic cores, inlays, onlays and veneers.

Matchmaker LF is compatible with all standard coefficient alloys and with a special leucite and glass matrix imparts strength in excess of the requirements of EN ISO 9693. This special matrix is also less abrasive to the opposing dentition than traditional feldspathic porcelains.



match *Maker*
Ceramic for Aluminium Oxide

ALX

Matchmaker ALX is a leucite free veneering ceramic that has been specially formulated for bonding to aluminium oxide copings. The dentine fires at 980°C and shows remarkable vitality and colour veracity in the whole of the shade range A1 to D4 and the latest bleach shades HA0, HB0 and HB00.



match *Maker*
Ceramic for Zirconia Frameworks

Zr

Matchmaker Zr has been specially developed for layering on top of zirconia bridges and copings. Coefficient of expansion, shades and light handling properties have been carefully developed to give superb results over the whole range of such frameworks. The dentine fires at 810°C and shows remarkable vitality and colour veracity in the whole of the shade range A1 to D4 and the latest bleach shades HA0, HB0 and HB00.



match *Maker*
Pressable for Zirconia Frameworks

PRESS to Zr

Matchmaker PRESS to Zr is an amorphous glass/leucite ceramic that has been developed for pressing over zirconia frameworks. There are two translucencies of pellets to enable either a Full Layering or Press & Stain technique to be employed, depending on the clinical requirements. Extremely aesthetic results can be achieved when used in conjunction with Matchmaker Zr Layering Porcelain and Matchmaker CTE Fluorescent Stains.



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